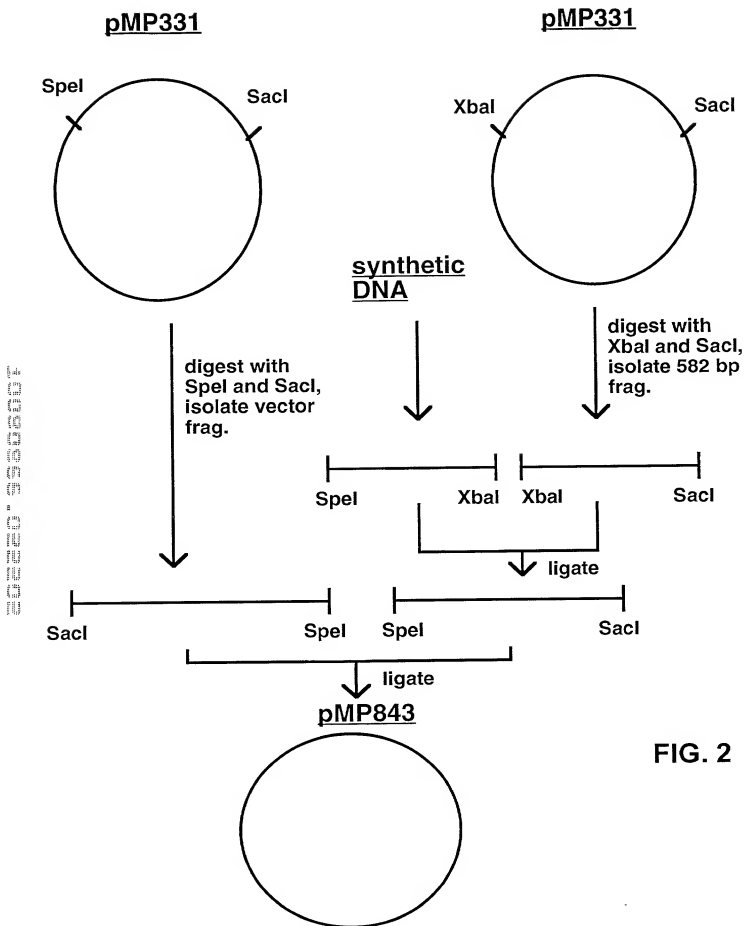
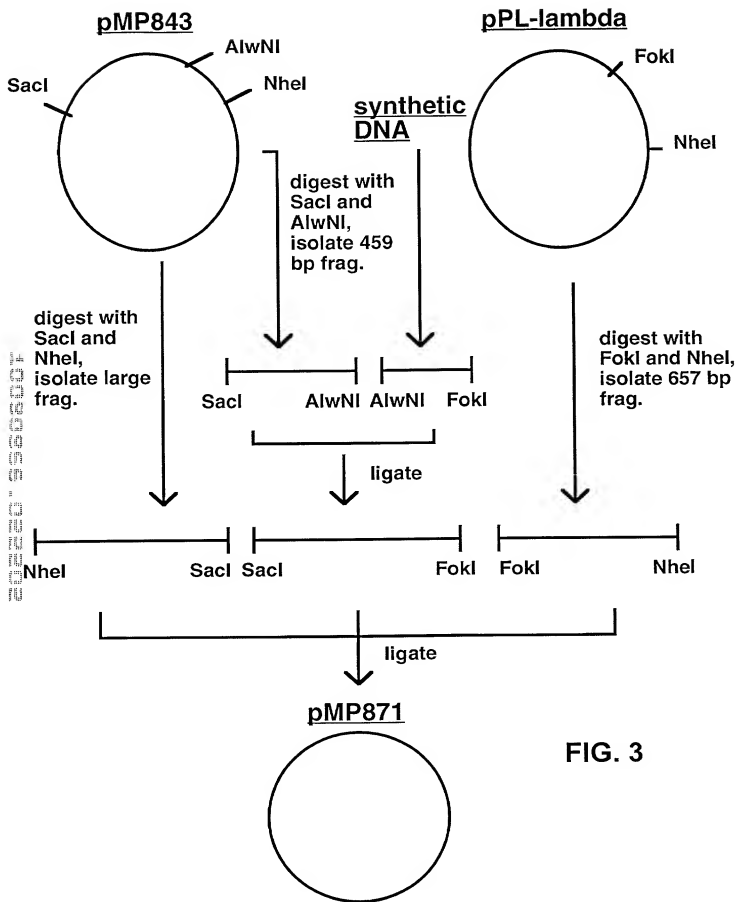


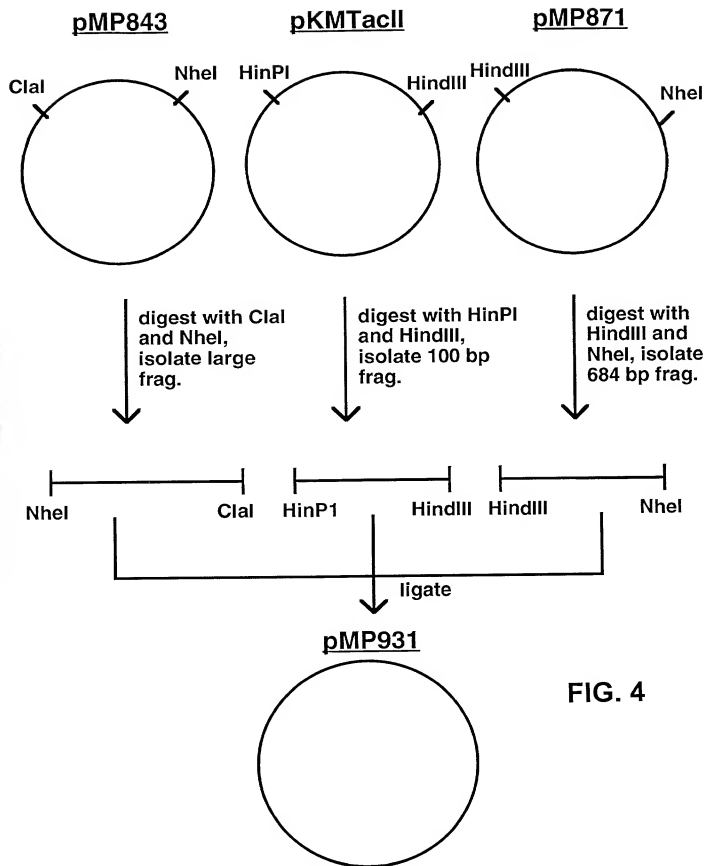
**FIG. 1**



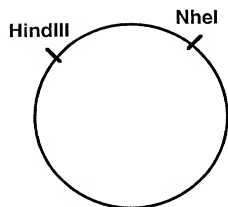
**FIG. 2**



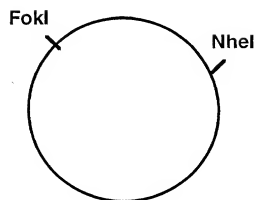
**FIG. 3**



**pMP931**



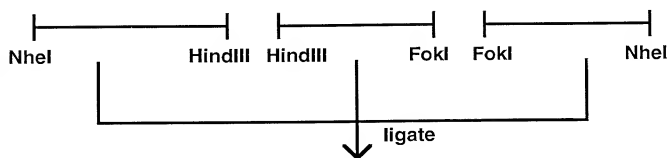
**pPL-lambda**



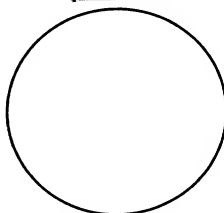
**synthetic  
DNA**

digest with  
HindIII and  
NheI, isolate  
large frag.

digest with  
FokI and NheI,  
isolate 657 bp  
frag.



**pMP945**



**FIG. 5**

**pMP931**

AatII XbaI

digest with AatII  
and XbaI, isolate  
large frag.

digest with AatII  
and SpeI, isolate  
322 bp frag.

**synthetic  
DNA**

AatII SpeI SpeI XbaI

ligate

XbaI AatII AatII XbaI

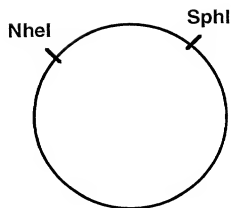
ligate

**pMP951**

**FIG. 6**

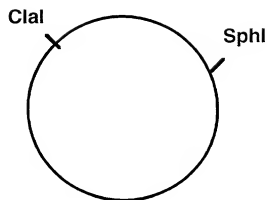
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**pMP951**



digest with NheI,  
fill in with DNA  
polymerase  
(Klenow)  
second cut with SphI,  
isolate large frag.

**pST141**

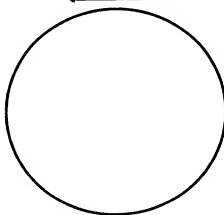


digest with ClaI  
fill in with DNA  
polymerase  
(Klenow),  
second cut with  
SphI, isolate  
440 bp frag.



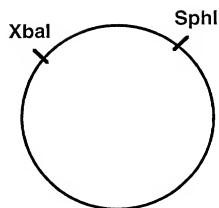
ligate

**pMP982**

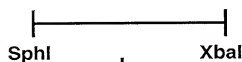


**FIG. 7**

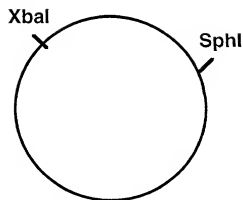
**pST182**



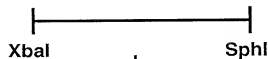
digest with XbaI  
and SphI, isolate  
large frag.



**pMP331**

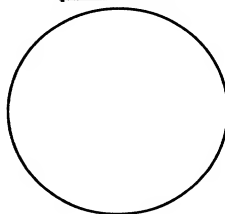


digest with XbaI  
and SphI, isolate  
1791 bp frag.



ligate

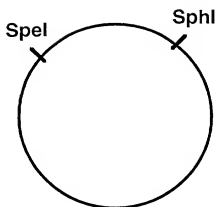
**pMP1016**



**FIG. 8**



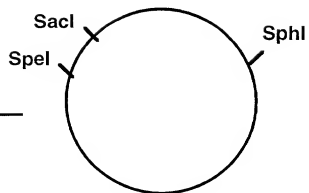
**pST182**



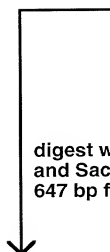
digest with SphI  
and SphI, isolate  
large frag.



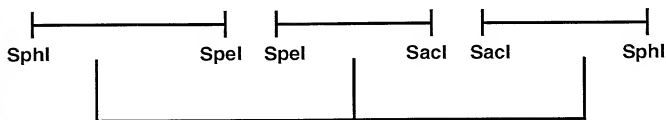
**pMP982**



digest with SphI  
and SacI, isolate  
647 bp frag.



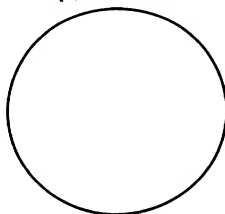
digest with  
SacI and SphI,  
isolate 1809 bp  
frag.



ligate

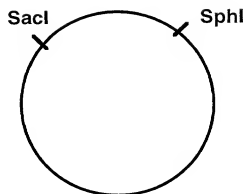


**pMP1086**

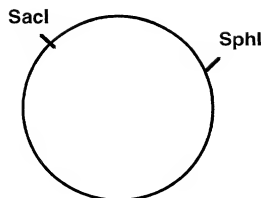


**FIG. 9**

**pMP1016**

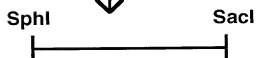


**pMP591**



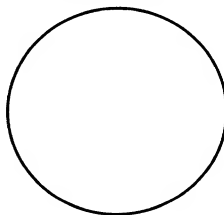
digest with  
SacI and SphI,  
isolate vector  
frag.

digest with  
SacI and SphI,  
isolate 1020 bp  
frag.



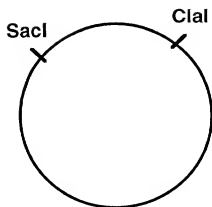
ligate

**pMP1099**

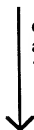


**FIG. 10**

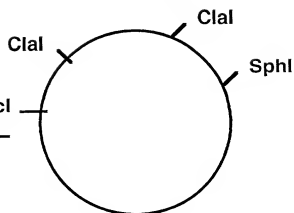
pMP945



digest with **SacI**  
and **ClaI**, isolate  
1007 bp frag.



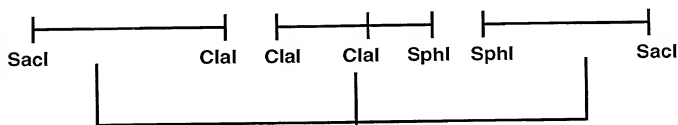
pMP1086



complete digest with  
**SphI**, partial digest  
with **ClaI**, isolate  
814 bp frag.



digest with  
**SacI** and **SphI**,  
isolate large  
frag.



ligate

pMP1201

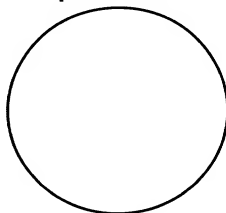
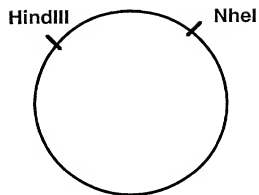
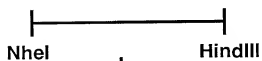


FIG. 11

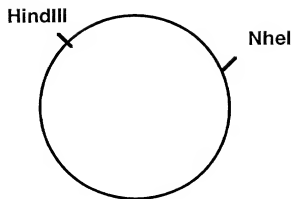
**pMP951**



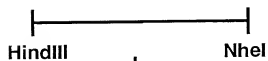
digest with HindIII  
and NheI, isolate  
large frag.



**pMP945**

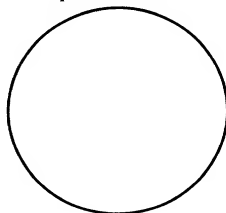


digest with HindIII  
and NheI, isolate  
696 bp frag.



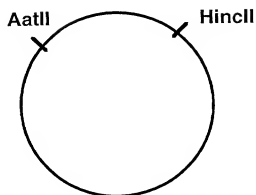
ligate

**pMP1217**

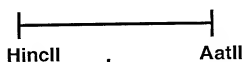


**FIG. 12**

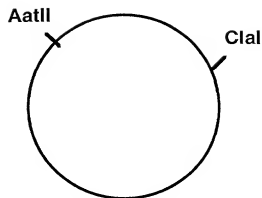
**pACYC177**



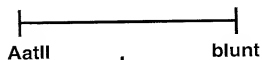
digest with AatII  
and HincII, isolate  
large frag.



**pJJ41**

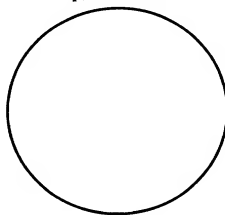


digest with ClaI,  
fill in with DNA  
polymerase,  
digest with AatII,  
isolate 1021 bp  
frag.



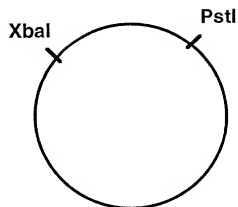
ligate

**pJJ142**

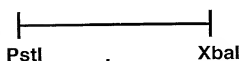
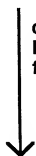


**FIG. 13**

pJJ142

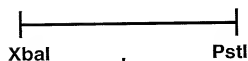


digest with XbaI and  
PstI, isolate large  
frag.



PCR reaction

digest PCR  
reaction with  
XbaI and PstI,  
isolate 488 bp  
frag.



ligate

pDR1

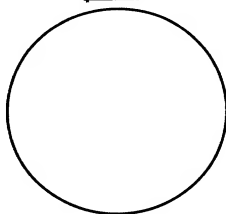
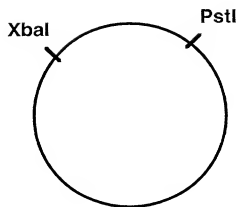
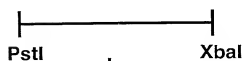


FIG. 14

pJJ142

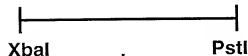


digest with XbaI and  
PstI, isolate large  
frag.



PCR reaction

digest PCR  
reaction with  
XbaI and PstI,  
isolate 491 bp  
frag.



ligate

pDR3

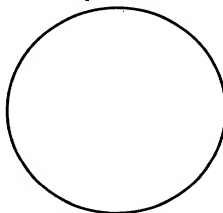
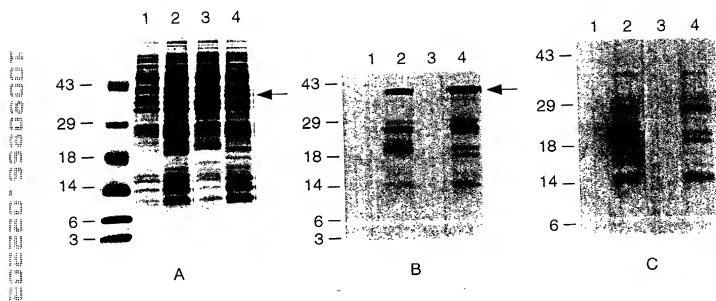


FIG. 15



**FIG. 16**



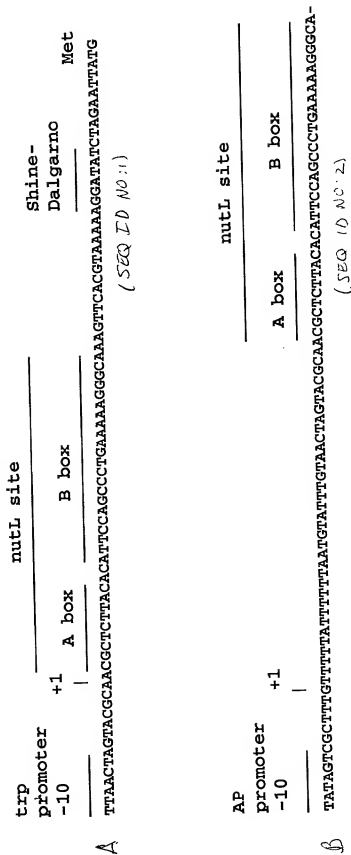


FIG. 17

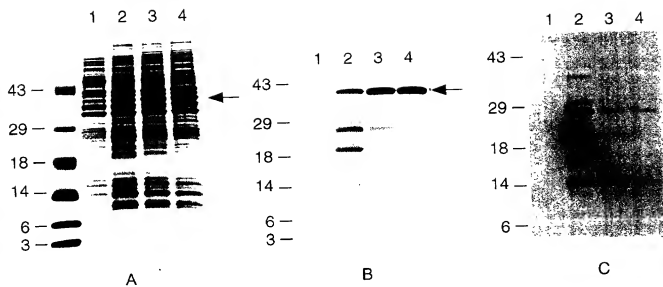
**A**

Tac II promoter -10	+1	Shine- Dalgarno	Start of $\lambda$ N protein
<u>TTTAAATGTTGGAA</u>		<u>TTTGAACGCGGATAACAATTAAAGCTTTTATGGATGCACAAACA</u>	<u>MetAspAlaGlnThr</u> (SEQ ID NO: 3) (SEQ ID NO: 4)

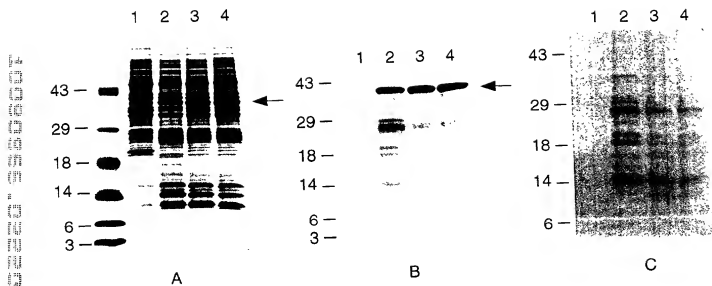
**B**

Tac II promoter -10	+1	Shine- Dalgarno	Start of $\lambda$ N protein
<u>TTTAAATGTTGGAA</u>		<u>TTTGAACGCGGATAACAATTAAAGCTTAGGATTTCTAGAAATTATGGATGCACAAACA</u>	<u>MetAspAlaGlnThr</u> (SEQ ID NO: 3) (SEQ ID NO: 5)

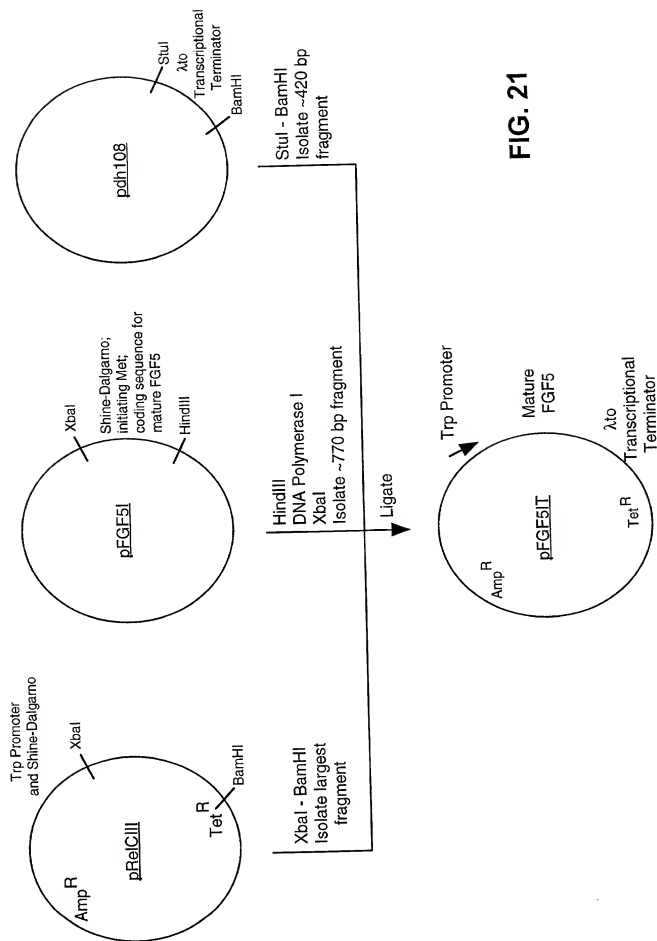
FIG. 18



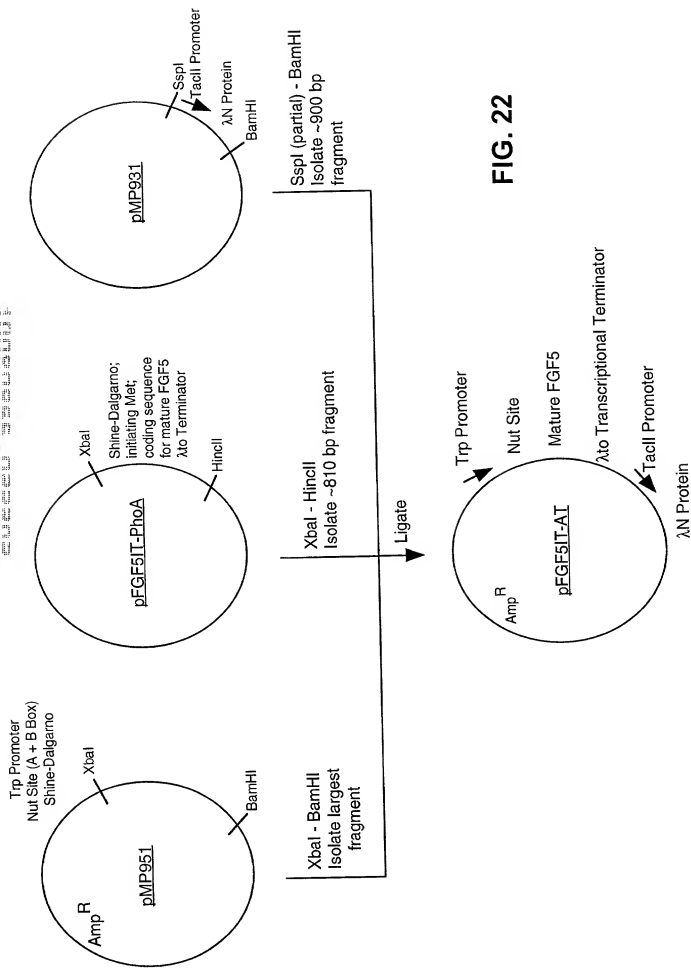
**FIG. 19**



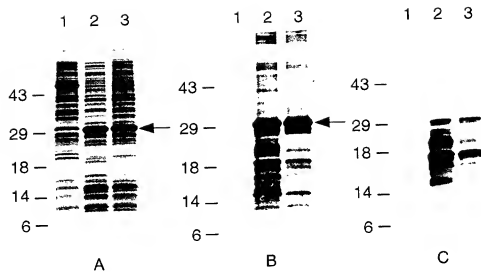
**FIG. 20**



**FIG. 21**



**FIG. 22**



**FIG. 23**